

1.2.1 Writing a program in Java to implement access modifiers

For public access specifier:

```
package module1;

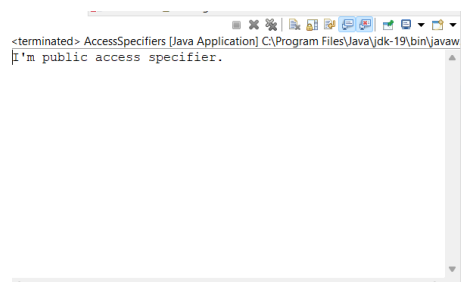
public class PublicAccess {
    public void show() {
        System.out.println("I'm public access specifier.");
    }
}
```

Create another class importing above package:

```
package pck2;
import module1.*;
public class AccessSpecifiers {

    public static void main(String[] args) {
        PublicAccess pa=new PublicAccess();
        pa.show();
    }
}
```

Output



For private access specifier:

```
package module1;

class Privateaccessspecifier
{
    private void show()
    {
        System.out.println("I am a private access specifier");
    }
}

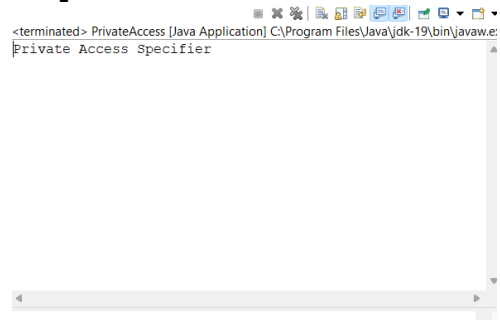
public class PrivateAccess {

    public static void main(String[] args) {

        System.out.println("Private Access Specifier");
        Privateaccessspecifier obj = new Privateaccessspecifier();
        //try to access private method of another class
        //obj.display();

    }
}
```

Output:



For protected access specifier

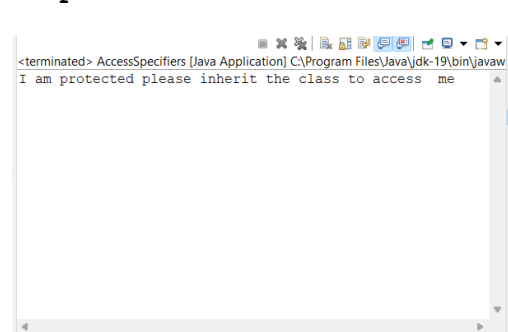
```
package module1;

public class ProtectedAccess {
    public void display() {
        System.out.println("I am protected please inherit the class to
access me");
    }
}

package pck2;
import module1.*;
public class AccessSpecifiers extends ProtectedAccess{

    public static void main(String[] args) {
        ProtectedAccess pr=new ProtectedAccess();
        pr.display();
    }
}
```

Output:



For default access specifier:

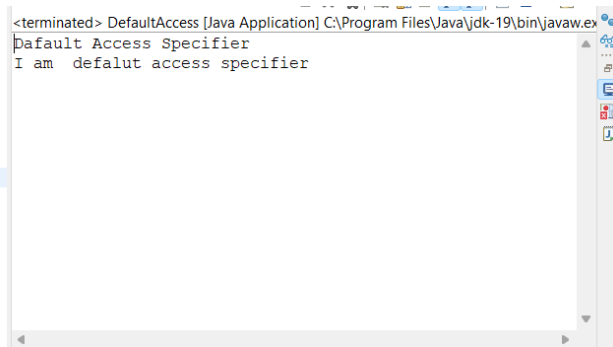
```
package module1;

class AccessSpecifer {

    void display()
    {
        System.out.println("I am defalut access specifier");
    }
}
```

```
public class DefaultAccess {  
  
    public static void main(String[] args) {  
  
        System.out.println("Dafault Access Specifier");  
        AccessSpecifer obj = new AccessSpecifer();  
        obj.display();  
  
    }  
  
}
```

Output:



```
<terminated> DefaultAccess [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe  
Dafault Access Specifier  
I am defalut access specifier
```